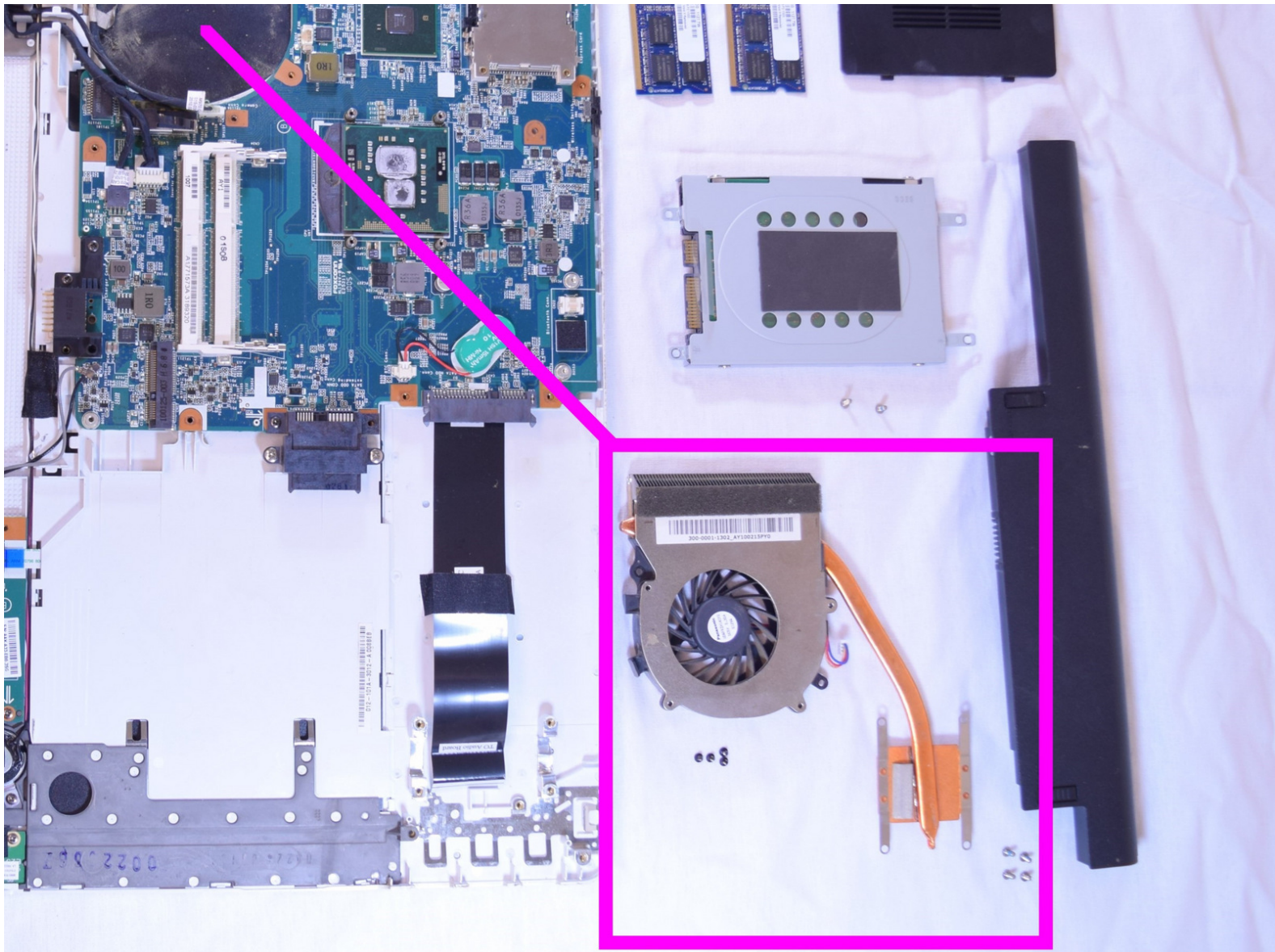




# Sony Vaio PCG-71312I Cooling Fan Replacement

This guide covers the removal of the cooling fan and heat sink for replacement.

Written By: Maxine Filcher





## TOOLS:

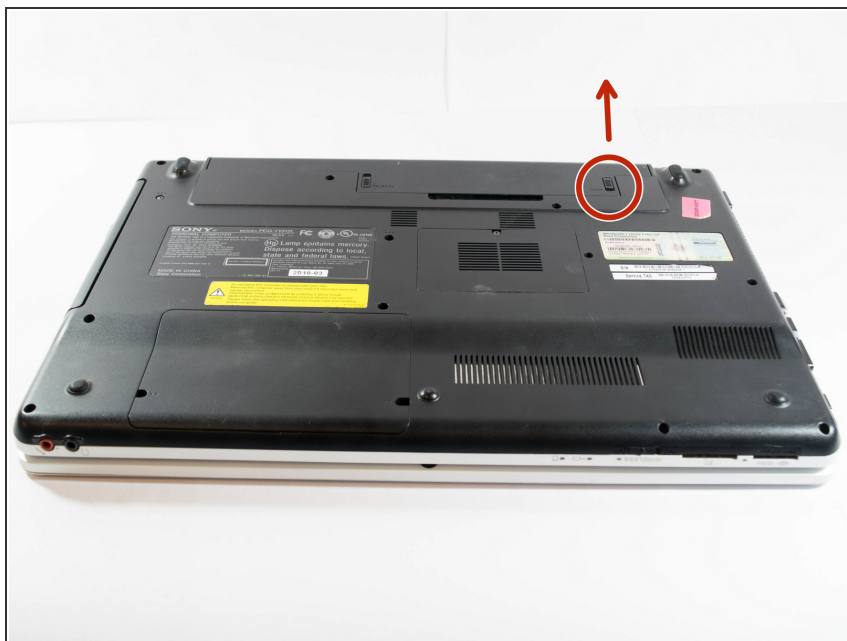
- [Phillips #000 Screwdriver](#) (1)
- [Phillips #1 Screwdriver](#) (1)



## PARTS:

- [Arctic Silver Thermal Paste](#) (1)

## Step 1 — Battery



- ⚠ Power down, and disconnect from power supply.
- Use your finger to unlock the tab by pressing the slide away from you.

## Step 2



- Hold the release slide, while using thumb to apply upward pressure.

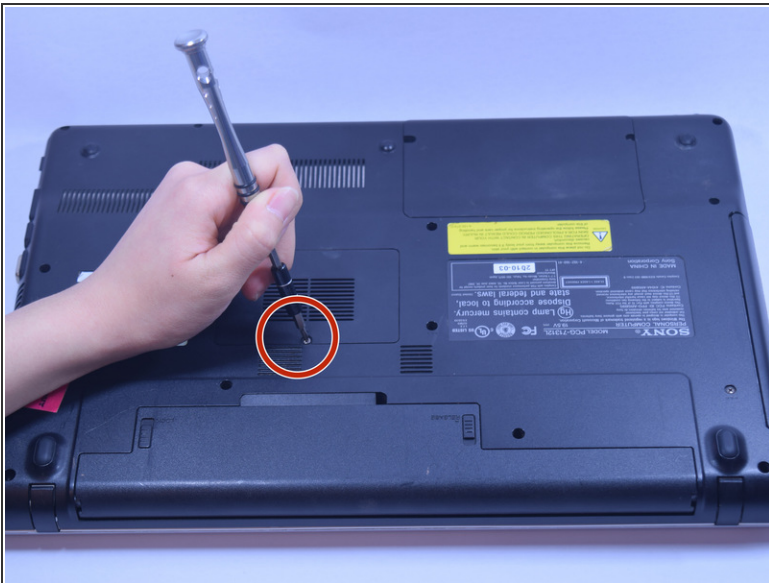


## Step 3



- Pull the battery off

## Step 4 — RAM



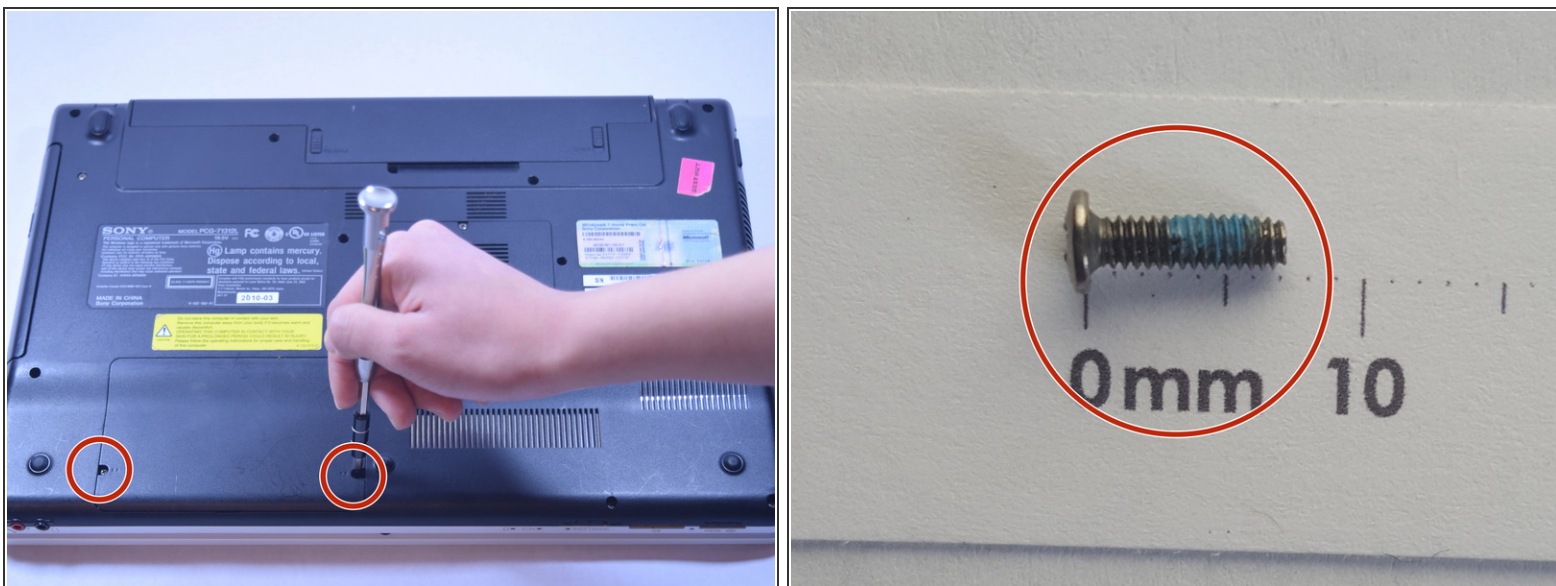
- Unscrew the RAM case
- The case to pop up once you lose up the case

## Step 5



- Use two finger gently to pul the white plastic strap outward with both side.
- Once you pull the strap, the RAM with lose up, you are able to just lift up the RAM
- Once you done with the top, repeat the same step for the bottom

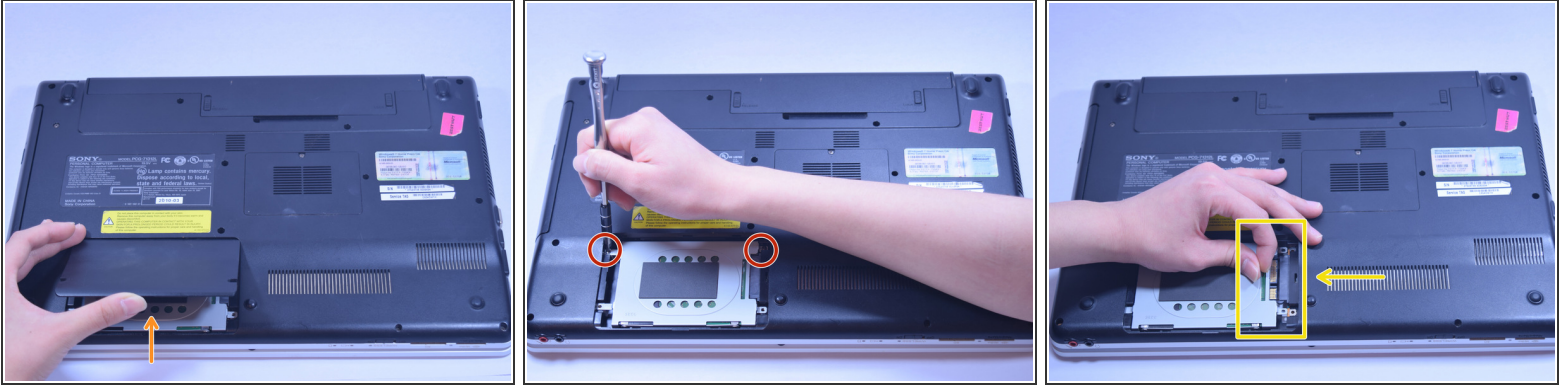
## Step 6 — Hard Drive



- Using PH 01 remove two 7mm PH screws.

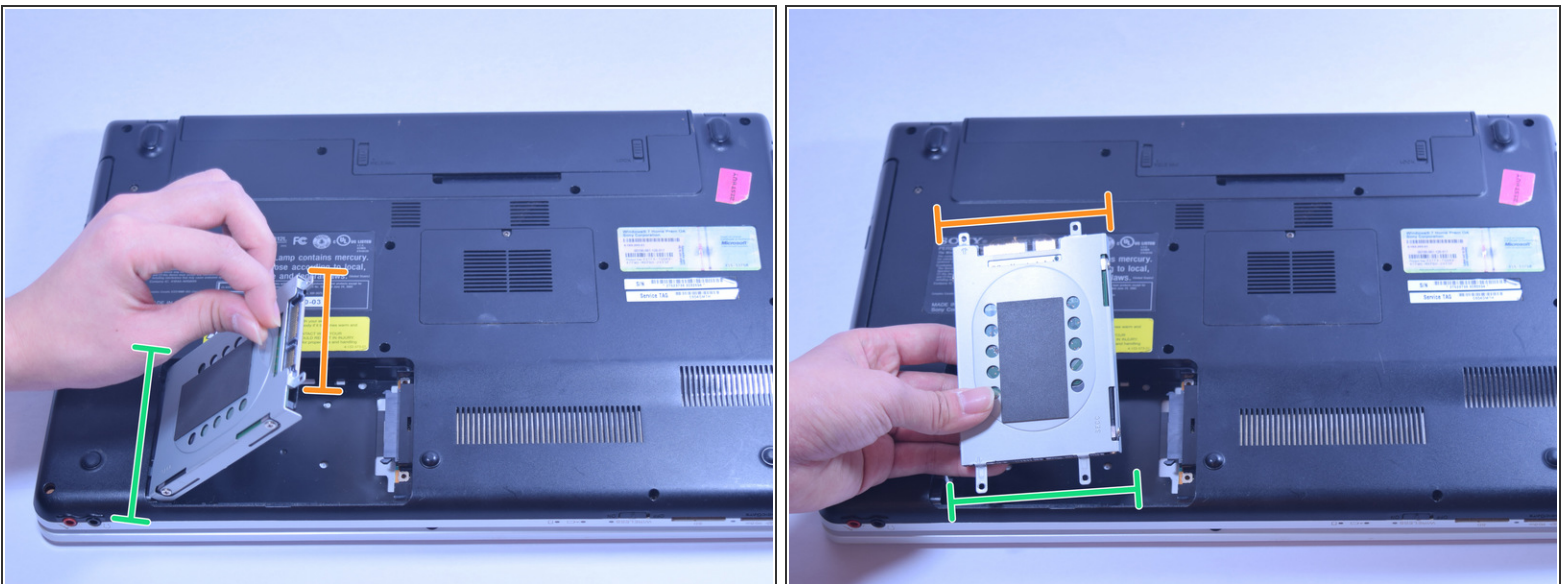


## Step 7



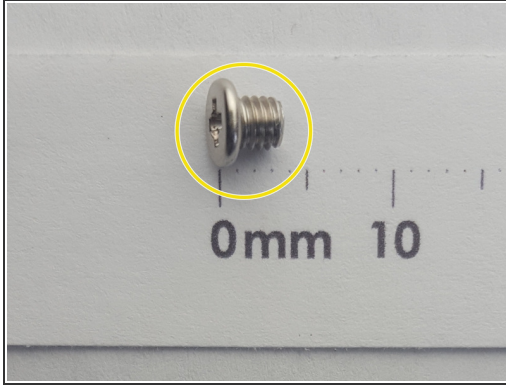
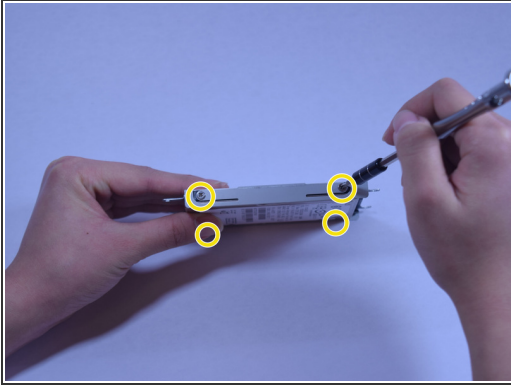
- #1 Use force to push the cap upward.
- #2 Unscrew two 7mm PH screws.
- #3 Pull from the plastic and pull toward the arrow point it direction.

## Step 8



- Lift plug side first.

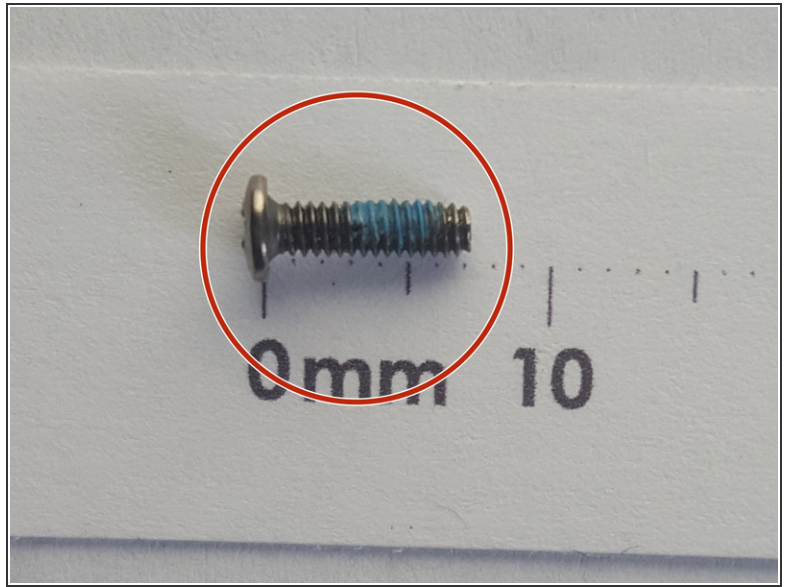
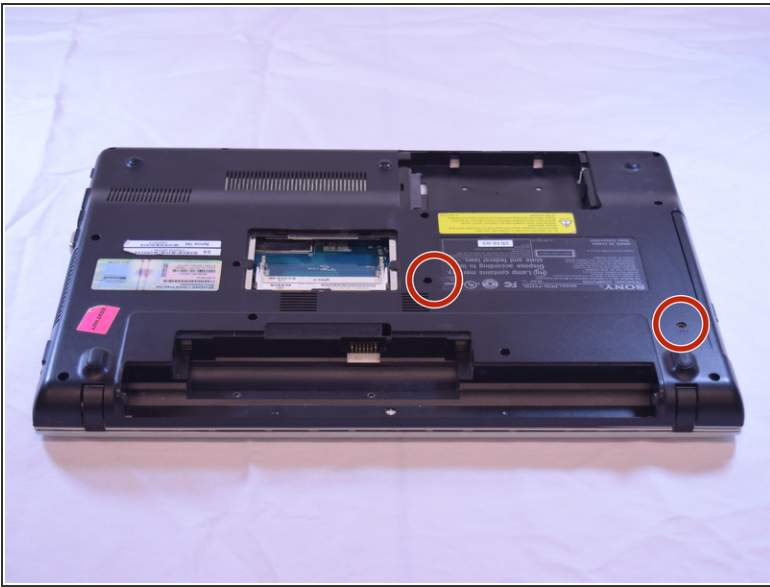
## Step 9



**i** Skip to next step if accessing other components.

- #1 Remove four 3mm PH01 screws from hard drive bracket.

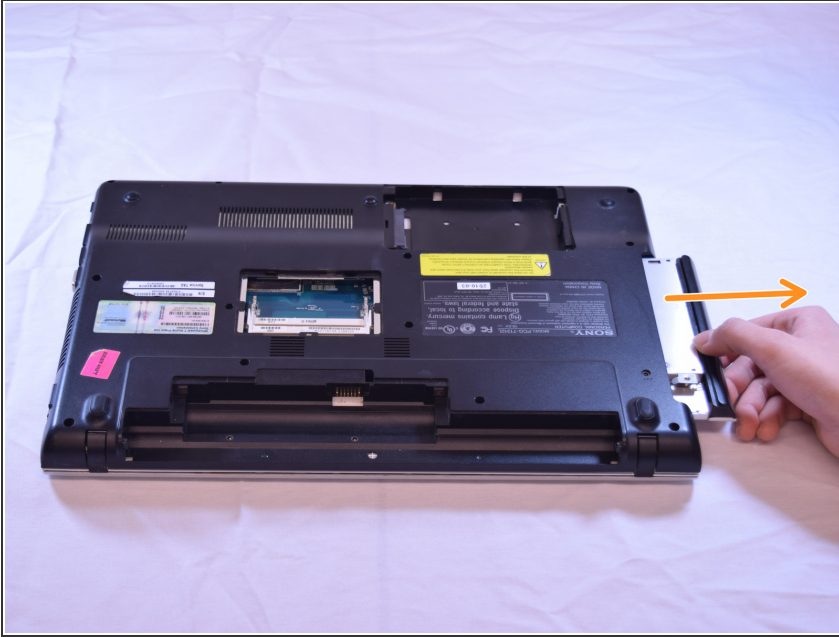
## Step 10 — DVD Drive



- Remove two 7mm PH01 screws

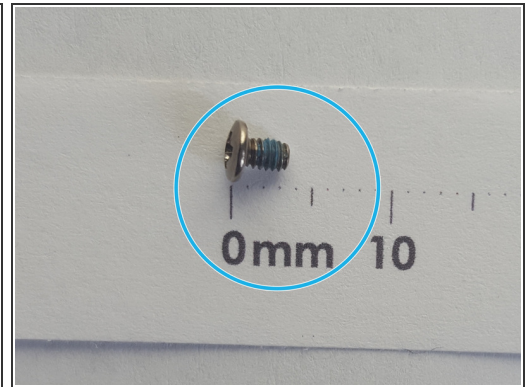
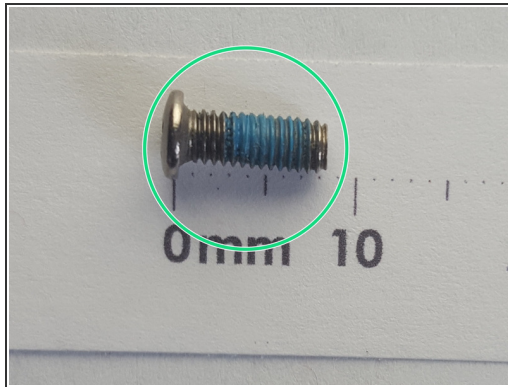
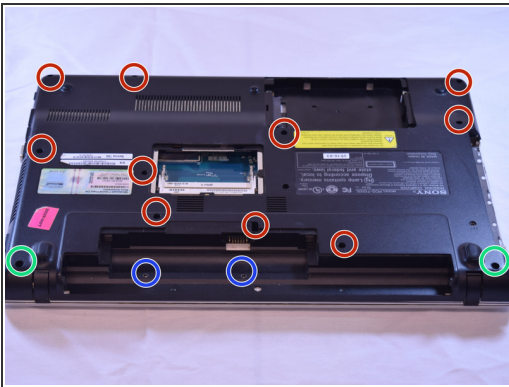


## Step 11



- Grasp the DVD drive's face plate with your fingers, and pull out.

## Step 12 — Cooling Fan



- Remove ten 7mm PH1 screws
- Remove two 8mm PH1 screws
- Remove two 3mm PH1 screws

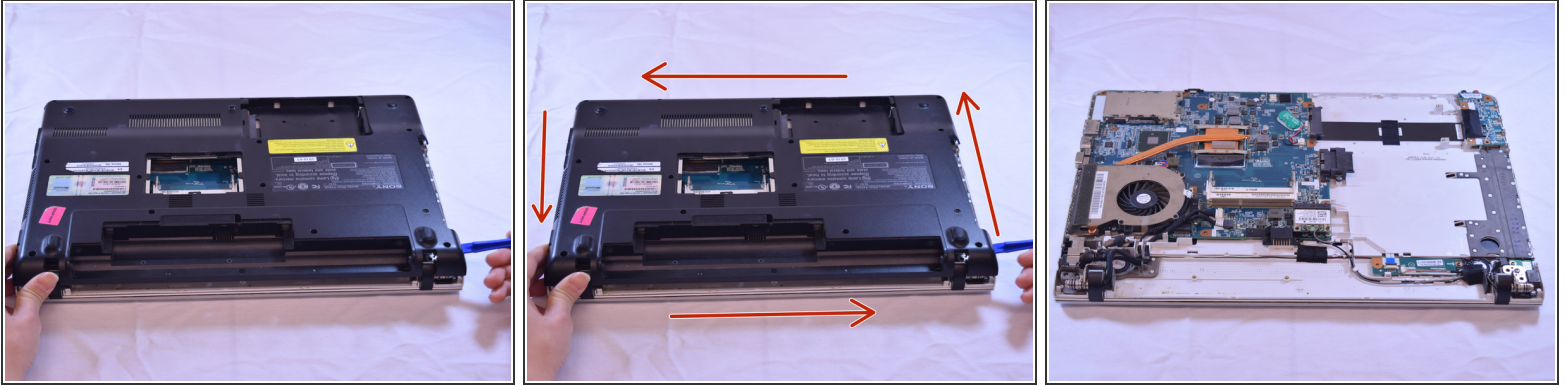


## Step 13



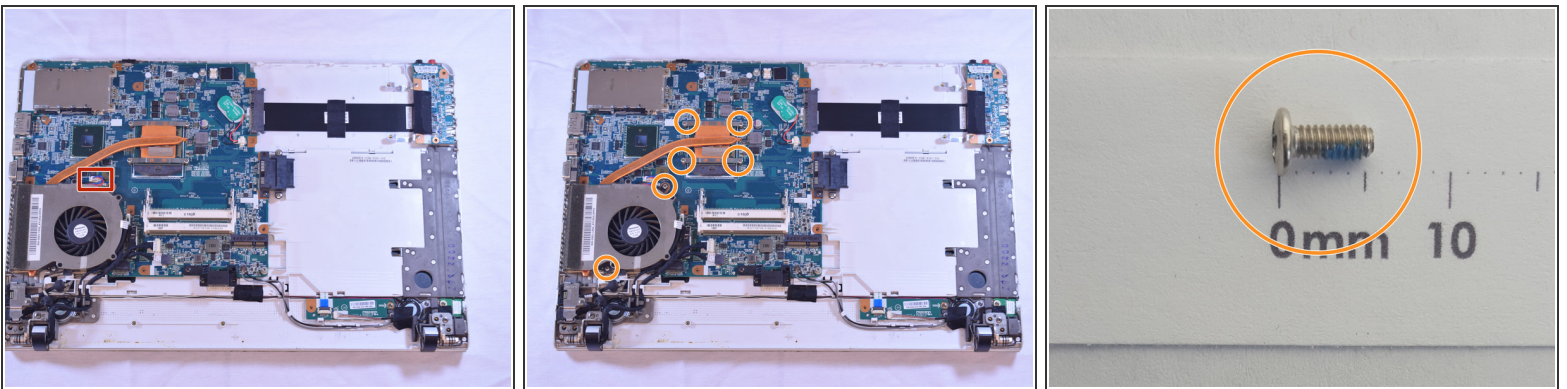
- Remove SD card slot block.
- Push in until it releases.
- Then pull out to remove.

## Step 14



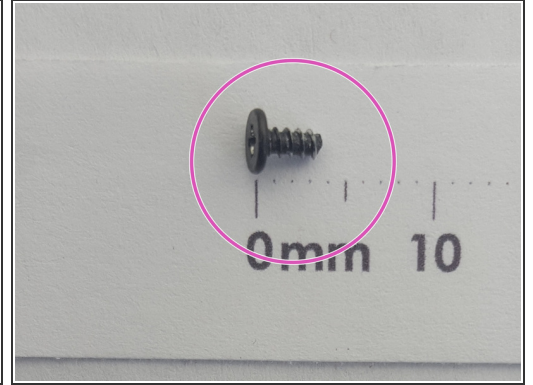
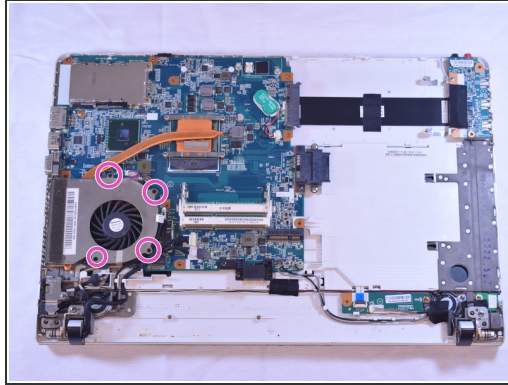
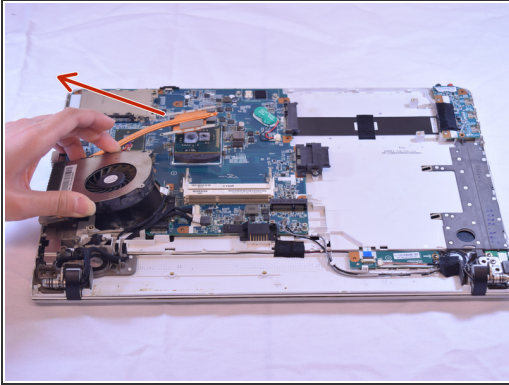
- Start by finding a loose corner, to work you prying tool into.
  - Then work the tool around the sides to release cover. You may need a second tool to help keep your loose corner open.
  - Lift cover away.
- (i) NOTE:** If you are attempting to access other components, skip 2 steps.

## Step 15



- Remove this plug using a prying tool.
- Remove seven 5mm PH01 screws.

## Step 16



- To break the thermal paste, apply gentle constant upward force until it comes free.
- Remove four 3.5mm PH000 screws to access cooling fan.

To reassemble your device, follow these instructions in reverse order.

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